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(IN TRIPLICATE)

28 March 1958

U. S. Government

Attention: Gentlemen

Subject: Transportable Inflatable  
Antenna Systems, Submission  
of Quotation for

Enclosure: (A) Estimated Cost Analysis, in triplicate

(B)  Proposal,  
 CEP No. 1071, in triplicate

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Gentlemen:

Pursuant to a recent request, the bidder submits the following quotation together with its estimated cost analysis, Enclosure (A), and engineering proposal, Enclosure (B):

<u>Item</u>	<u>Description</u>	<u>Estimated Selling Price</u>
1	Development of Transportable Inflatable Antenna System	\$41,500.65
2	Construct Five Transportable Inflatable Antenna Systems as Developed under Item 1	26,609.20
3	Instruction Books, One to Ten Copies	<u>2,152.62</u>
	Total Estimated Selling Price	<u>\$70,262.47</u>
	Total Estimated Cost	\$63,874.97
	Fixed Fee at 10%	<u>6,387.50</u>
	Total Estimated Selling Price	<u>\$70,262.47</u>

The above equipment shall be in accordance with the specifications as noted below:

- A. Breakdown and packaging for transportation in containers not to exceed 20" x 20" x 12" outside dimensions. Any number of containers.

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- B. Receiving only from 10,000 mcs down to 700 or 800 mcs. (The lower limit will be determined as that frequency where the gain of the parabolic equals a conventional array.) Can probably go down to 300 or 400 mcs.
- C. Minimum number of feed horns still maintaining a VSWR of better than 3 to 1.
- D. Fifty ohms unbalanced feed using high quality coaxial cable for minimum loss.
- E. The maximum operating space to accommodate the reflector, feeds, and blower will be seven feet high, nine feet wide, by nine feet deep.
- F. The blower for inflating the antenna must be electrically free of interference and audibly quiet outside the room of operation. Shock mount possibly will be used.
- G. Ninety degree manual rotation of the feeds must be provided for polarization changes.
- H. Side lobe response should be at least 10 db below the main lobe.
- I. The blower motor should be capable of operating from 110/220 volts 50/60 cycle sources as well as 12 volts d.c. (If a complete motor change for direct current operation is required, we request that we be advised for determining the quantity desired.)
- J. A simple and inexpensive azimuth indicator attached to the reflectors. This should be established as a firm requirement.
- K. The following table of beam patterns and gain are established as a guide but the maximum gain is requested except at 10,000 mcs where the beam width must not be smaller than two degrees.

<u>FREQ. MCS</u>	<u>GAIN</u>	<u>BEAM WIDTH</u>
800	22 db	13°
1860	28 db	6.5°
4320	34 db	3.1°
10,000	36 db	2.5°

- L. The main criteria for these antennas is maximum gain, highly flexible for installation, and packagable in 20 x 20 x 12 inch containers.
- M. Two methods of mounting will be required: (1) A simple

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tripod for enclosed areas. (2) A mast type mounting of 6 and 12 ft. section lengths. The basic antenna system shall mount interchangeably in either the tripod or mast configuration. The mast configuration shall withstand wind loads up to 70 mph operating. Five tripod and two mast mounts are required for the five antenna systems. Separate prices are required for tripod and mast mounts.

- N. Transmission lines shall be supplied in three lengths. One line shall measure 24 ft. long. Two additional lines at 8 ft. each are required.

The bidder's proposed method for achieving the design and development of the transportable inflatable antenna system is outlined in Enclosure (B).

This quotation is predicated upon the award of a mutually acceptable cost-plus-fixed-fee type of contract.

Delivery of the above items can be made in accordance with the following schedule:

<u>Items</u>	<u>Delivery Date</u>
1, 2, and 3	Six (6) months after receipt of contract award

In the event of award of contract based on this proposal, it is requested that provision be made for payments at intervals of not more than thirty (30) days, based on cost incurred and applicable proportion of the fixed fee.

Favorable consideration of the enclosed quotation is respectfully requested. Representatives of the bidder will be readily available in the event that further contractual or technical discussion is necessary. In matters pertaining to this quotation, please reference the subject proposal and address all inquiries to Mr.

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Very truly yours,

Contract Administrator

GWB/js

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ESTIMATED COST ANALYSIS  
TRANSPORTABLE UNFLATABLE ANTENNA SYSTEM  
FOR U. S. GOVERNMENT

Sanitized Copy Approved for Release 2011/09/19 : CIA-RDP78-03424A002000080073-3

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Enclosure (A)  
Letter to U. S. Government  
Dated 28 March 1958

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	Rate	Item 1		Item 2		Item 3	
		Development		Construct Five (5) Systems		Instruction Books	
		Hours	Amount	Hours	Amount	Hours	Amount
<u>Salaries &amp; Wages</u>							
Engineer	3525	1940	\$ 7,798.80	340	\$ 1,366.80	160	\$ 643.20
Lab. Assts.	1416	1500	3,735.00	360	896.40		
Drafting	1413	860	1,960.80	40	91.20	80	182.40
Model Shop		1080	2,613.60	1080	2,613.60		
<u>Total Salaries &amp; Wages</u>			\$16,108.20		\$ 4,968.00		\$ 825.60
<u>Departmental Overhead</u>							
Engineering	104%		8,110.75		1,421.47		668.93
Lab. Assts.	45%		1,680.75		403.33		
Drafting	81%		1,583.25		73.87		147.74
Model Shop	116%		3,039.78		3,039.78		
<u>Departmental Overhead Expense</u>			\$14,414.53		\$ 4,930.50		\$ 816.67
G & A Overhead @ 25% of Direct Labor			4,183.13		1,291.68		214.66
<u>Total Overhead Expense</u>			\$18,597.66		\$ 6,222.18		\$1,031.33
<u>Material</u>			2,700.00		13,000.00		100.00
<u>Travel</u>			320.00				
<u>Total Estimated Cost</u>			\$37,727.86		\$24,190.18		\$1,956.93
<u>Fixed Fee @ 10%</u>			3,772.79		2,419.02		195.69
<u>Total Estimated Selling Price</u>			\$41,500.65		\$26,609.20		\$2,152.62

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